#12

1642

1600

RAW SEQUENCE LISTING
PATENT APPLICATION: **US/09/770,689B**

DATE: 12/10/2002
TIME: 08:40:14

Input Set : **A:\SUBSTITUTE_SEQLIST_20021118.TXT**
Output Set: **N:\CRF4\12102002\I770689B.raw**

P.6

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 4 <110> APPLICANT: YAN, Chunhua et al.
 6 <120> TITLE OF INVENTION: ISOLATED HUMAN RAS-LIKE PROTEINS,
 7       NUCLEIC ACID MOLECULES ENCODING THESE HUMAN RAS-LIKE
 8       PROTEINS, AND USES THEREOF
10 <130> FILE REFERENCE: CL001079
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13 <141> CURRENT FILING DATE: 2001-01-29
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91 Glu Arg Arg Leu Asp Thr Val Arg Ser Ile Cys His His Ser His Lys
92         35                  40                  45
93 Arg Leu Val Ala Cys Phe Gln Gly Gln His Gly Thr Asp Ala Glu Arg
94     50                  55                  60
95 Arg His Lys Lys Leu Pro Leu Thr Ala Leu Ala Gln Asn Met Gln Glu
96 65                  70                  75                  80
97 Ala Ser Thr Gln Leu Glu Asp Ser Leu Leu Gly Lys Met Leu Glu Thr
98                 85                  90                  95
99 Cys Gly Asp Ala Glu Asn Gln Leu Ala Leu Glu Leu Ser Gln His Glu
100             100                 105                 110
101 Val Phe Val Glu Lys Glu Ile Val Asp Pro Leu Tyr Gly Ile Ala Glu
102         115                 120                 125
103 Val Glu Ile Pro Asn Ile Gln Lys Gln Arg Lys Gln Leu Ala Arg Leu
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109 Lys Glu Glu Met Asp Glu Ala Gly Asn Lys Val Glu Gln Cys Lys Asp
110             180             185             190
111 Gln Leu Ala Ala Asp Met Tyr Asn Phe Met Ala Lys Glu Gly Glu Tyr
112             195             200             205
113 Gly Lys Phe Phe Val Thr Leu Leu Glu Ala Gln Ala Asp Tyr His Arg
114         210             215             220
115 Lys Ala Leu Ala Val Leu Glu Lys Thr Leu Pro Glu Met Arg Ala His
116 225             230             235             240
117 Gln Asp Lys Trp Ala Glu Lys Pro Ala Phe Gly Thr Pro Leu Ala Glu
118             245             250             255
119 His Leu Lys Arg Ser Gly Arg Glu Ile Ala Leu Pro Ile Glu Ala Cys
120             260             265             270
121 Val Met Leu Leu Leu Glu Thr Gly Met Lys Glu Glu Gly Leu Phe Arg
122         275             280             285
123 Ile Gly Ala Gly Ala Ser Lys Leu Lys Lys Leu Lys Ala Ala Leu Asp
124         290             295             300
125 Cys Ser Thr Ser His Leu Asp Glu Phe Tyr Ser Asp Pro His Ala Val
126 305             310             315             320
127 Ala Gly Ala Leu Lys Ser Tyr Leu Arg Glu Leu Pro Glu Pro Leu Met
128             325             330             335
129 Thr Phe Asn Leu Tyr Glu Glu Trp Thr Gln Val Ala Ser Val Gln Asp
130             340             345             350
131 Gln Asp Lys Lys Leu Gln Asp Leu Trp Arg Thr Cys Gln Lys Leu Pro
132             355             360             365
133 Pro Gln Asn Phe Val Asn Phe Arg Tyr Leu Ile Lys Phe Leu Ala Lys
134         370             375             380
135 Leu Ala Gln Thr Ser Asp Val Asn Lys Met Thr Pro Ser Asn Ile Ala
136 385             390             395             400
137 Ile Val Leu Gly Pro Asn Leu Leu Trp Ala Arg Asn Glu Gly Thr Leu
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140             420             425             430
141 Pro Ile Ile Gln His Ala Asp Trp Phe Phe Pro Glu Glu Val Glu Phe
142         435             440             445
143 Asn Val Ser Glu Ala Phe Val Pro Leu Thr Thr Pro Ser Ser Asn His
144         450             455             460
145 Ser Phe His Thr Gly Asn Asp Ser Asp Ser Gly Thr Leu Glu Arg Lys
146 465             470             475             480
147 Arg Pro Ala Ser Met Ala Val Met Glu Gly Asp Leu Val Lys Lys Glu
148             485             490             495
149 Ser Pro Pro Lys Pro Lys Asp Pro Val Ser Ala Ala Val Pro Ala Pro
150             500             505             510
151 Gly Arg Asn Asn Ser Gln Ile Ala Ser Gly Gln Asn Gln Pro Gln Ala
152             515             520             525
153 Ala Ala Gly Ser His Gln Leu Ser Met Gly Gln Pro His Asn Ala Ala
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155 Gly Pro Ser Pro His Thr Leu Arg Arg Ala Val Lys Lys Pro Ala Pro
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157 Ala Pro Pro Lys Pro Gly Asn Pro Pro Pro Gly His Pro Gly Gly Gln
158                    565                    570                    575
159 Ser Ser Ser Gly Thr Ser Gln His Pro Pro Ser Leu Ser Pro Lys Pro
160                    580                    585                    590
161 Pro Thr Arg Ser Pro Ser Pro Pro Thr Gln His Thr Gly Gln Pro Pro
162           595                    600                    605
163 Gly Gln Pro Ser Ala Pro Ser Gln Leu Ser Ala Pro Arg Arg Tyr Ser
164      610                    615                    620
165 Ser Ser Leu Ser Pro Ile Gln Ala Pro Asn His Pro Pro Pro Gln Pro
166 625                    630                    635                    640
167 Pro Thr Gln Ala Thr Pro Leu Met His Thr Lys Pro Asn Ser Gln Gly
168                    645                    650                    655
169 Pro Pro Asn Pro Met Ala Leu Pro Ser Glu His Gly Leu Glu Gln Pro
170                    660                    665                    670
171 Ser His Thr Pro Pro Gln Thr Pro Thr Pro Pro Ser Thr Pro Pro Leu
172           675                    680                    685
173 Gly Lys Gln Asn Pro Ser Leu Pro Ala Pro Gln Thr Leu Ala Gly Gly
174      690                    695                    700
175 Asn Pro Glu Thr Ala Gln Pro His Ala Gly Thr Leu Pro Arg Pro Arg
176 705                    710                    715                    720
177 Pro Val Pro Lys Pro Arg Asn Arg Pro Ser Val Pro Pro Pro Pro Gln
178                    725                    730                    735
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181 Pro Thr Ala Ser Lys Ile Val Thr Asp Ser Asn Ser Arg Val Ser Glu
182           755                    760                    765
183 Pro His Arg Ser Ile Phe Pro Glu Met His Ser Asp Ser Ala Ser Lys
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PATENT APPLICATION: **US/09/770,689B**   TIME: 08:40:14

Input Set : **A:\SUBSTITUTE_SEQLIST_20021118.TXT**
Output Set: **N:\CRF4\12102002\I770689B.raw**

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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 12/10/2002
PATENT APPLICATION: **US/09/770,689B**   TIME: 08:40:15

Input Set : **A:\SUBSTITUTE_SEQLIST_20021118.TXT**
Output Set: **N:\CRF4\12102002\I770689B.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:6; Xaa Pos. 2,3,4,5
Seq#:8; Xaa Pos. 3
Seq#:9; Xaa Pos. 2,5
Seq#:10; Xaa Pos. 4